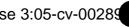


# PLAINTIFF'S COMPLAINT FOR PATENT INFRINGEMENT AND JURY DEMAND

Plaintiff Wireless Agents, L.L.C., brings this action for patent infringement against Defendants Sony Ericsson Mobile Communications, AB ("Sony Ericsson AB") and Sony Ericsson Mobile Communications (USA) Inc. ("Sony Ericsson USA") (collectively "Defendants"), and alleges as follows:

## I. THE PARTIES

- 1. Wireless Agents, L.L.C. is a limited liability company of the State of Texas.
- 2. Upon information and belief, Sony Ericsson AB is a Swedish corporation having a principal place of business at 202 Hammersmith Road, London W67DN, United Kingdom. Upon information and belief, Sony Ericsson AB is a nonresident of Texas who engages in business in this state, but does not maintain a regular place of business in this state or a designated agent for service of process in this state. Sony Ericsson AB may



be served with process in the United Kingdom or Sweden, pursuant to the Hague Convention on the Service Abroad of Judicial and Extrajudicial Documents.

3. Upon information and belief, Sony Ericsson USA is a Delaware corporation having a principal place of business at 7001 Development Drive, Research Triangle Park, North Carolina 27709. Sony Ericsson USA is authorized to do business in the State of Texas and may be served with process by serving its registered agent, National Registered Agents, Inc., at 1614 Sidney Baker Street, Kerrville, Texas 78028.

# **JURISDICTION AND VENUE**

- 4. This action arises under the patent laws of the United States, Title 35 of the United States Code. The Court's jurisdiction over this action is proper under the above statutes, including 35 U.S.C. § 271 et seq. and 28 U.S.C. §§ 1331 and 1338(a).
- 5. Personal jurisdiction exists generally over the Defendants because they have sufficient minimum contacts with the forum as a result of business conducted within the State of Texas and within the Northern District of Texas. Personal jurisdiction also exists specifically over the Defendants because of their conduct in making, using, selling, offering to sell, and/or importing infringing products within the State of Texas and within the Northern District of Texas.
- 6. Venue is proper in this Court under 28 U.S.C. §§ 1391(b), (c), and (d), as well as 28 U.S.C. § 1400(b).

# III. PATENT INFRINGEMENT

7. Plaintiff Wireless Agents, L.L.C. repeats and realleges the allegations in paragraphs 1-6 as though fully set forth herein.

- 8. Plaintiff Wireless Agents, L.L.C. is the owner of all rights, title, and interest in and under United States Patent No. 6,665,173 ("the '173 Patent"), which duly and legally issued on December 16, 2003, with Plaintiff Wireless Agents, L.L.C., as the named patentee.
- 9. The '173 Patent is for an invention in a physical configuration of a handheld electronic communication device. A true and correct copy of the '173 Patent is attached hereto as Exhibit A.
  - 10. The '173 Patent is valid and enforceable.
- Sony Ericsson AB and Sony Ericsson USA have been and are infringing 11. the '173 Patent by making, using, selling, offering for sale, and/or importing in or into the United States, without authority, products that fall within the scope of the claims of the '173 Patent, including but not limited to products known as "S 700i" and "S710a."
- By making, using, selling, offering for sale, and/or importing in or into the 12. United States, without authority, products that fall within the scope of the claims of the '173 Patent, Defendants have also induced infringement of the '173 Patent under 35 U.S.C. § 271(b), and have contributed to the infringement of the '173 Patent under 35 U.S.C. § 271(c). The infringing products have no substantial non-infringing uses.
- 13. As a direct and proximate result of Defendants' acts of patent infringement, Plaintiff Wireless Agents, L.L.C. has been and continues to be injured and has sustained and will continue to sustain substantial damages in an amount not presently known.
- 14. Plaintiff Wireless Agents, L.L.C. has no adequate remedy at law against these acts of patent infringement. Unless Defendants are permanently enjoined from

their unlawful and willful infringement of the '173 Patent, Plaintiff Wireless Agents, L.L.C. will suffer irreparable harm.

# IV. PRAYER FOR RELIEF

Plaintiff, Wireless Agents, L.L.C., respectfully requests that judgment be entered in his favor and against Defendants and that the Court grant the following relief to Plaintiff Wireless Agents, L.L.C.:

- Declare that the '173 Patent is valid and enforceable: Α.
- B. Declare that Defendants have infringed the '173 Patent;
- C. Award damages to Plaintiff Wireless Agents, L.L.C. to which it is entitled for patent infringement;
- D. Enter a preliminary and thereafter a permanent injunction against Defendants' direct infringement of the '173 Patent;
- E. Enter a preliminary and thereafter a permanent injunction against Defendants' active inducements of infringement and/or contributory infringements of the '173 Patent by others;
- F. Award interest on Plaintiff Wireless Agents, L.L.C.'s damages; and
- G. Such other relief as the Court deems just and proper.

# V. JURY DEMAND

In accordance with FED. R. CIV. P. 38 and 39, Plaintiff asserts its rights under the Seventh Amendment of the United States Constitution and demands a trial by jury on all issues.

Dated February 10, 2005



Michael W. Shore State Bar No. 18294915 Alfonso Garcia Chan State Bar No. 24012408 Rick H. Rosenblum State Bar No. 17276100 George P. Bush State Bar No. 24040616 Amy E. Blackwelder State Bar No. 24040529 Raj K. Krishnan State Bar No. 24035612 Gerald B. Hrycyszyn State Bar No. 24043734 AKIN GUMP STRAUSS HAUER & FELD LLP 1700 Pacific Avenue-Suite 4100 Dallas, Texas 75201 Tel. 214.969.2800 Fax 214.969.4343

ATTORNEYS FOR PLAINTIFF WIRELESS AGENTS, L.L.C.

# **EXHIBIT "A"**



# (12) United States Patent

Brandenberg et al.

(10) Patent No.: US 6,665,173 B2 (45) Date of Patent: Dec. 16, 2003

(54)	PHYSICAL CONFIGURATION OF A HAND- HELD ELECTRONIC COMMUNICATION DEVICE							
(75)	Inventors:	Carl Brock Brandenberg, Cresson, TX (US); Robert L. Kay, Fort Worth, TX (US)						
(73)	Assignee:	Wireless Agents, LLC, Fort Worth, TX (US)						
(*)	Notice:	Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 165 days.						
(21)	Appl. No.: 09/745,617							
(22)	Filed:	Dec. 20, 2000						
(65)		Prior Publication Data						
	US 2001/0048589 A1 Dec. 6, 2001							
	Related U.S. Application Data							
(60)	Provisional application No. 60/172,675, filed on Dec. 20, 1999.							
(51)	· · · · · · · · · · · · · · · · · · ·							
(52)	U.S. Cl							
(58)	Field of S	349/84; 400/682; 312/223.1 earch						
(30)	361/724–727; 345/905, 156, 169; 349/58;							
		312/223.1–223.2; 400/88, 682						
(56)	References Cited							
	U.S. PATENT DOCUMENTS							

5,267,123	Α	*	11/1993	Boothroyd et al	361/681
5,337,212	Α	*	8/1994	Bartlett et al	361/681
5,548,477	Α	*	8/1996	Kumar et al	361/680
5,548,478	Α		8/1996	Kumar et al	361/681
5,638,257	Α		6/1997	Kumar et al	361/680
5,644,469	Α	*	7/1997	Shioya et al	361/681
5,712,760	Α	*	1/1998	Coulon et al	361/680
5,949,408	Α		9/1999	Kang et al	345/169
5,973,915	Α	*	10/1999	Evans	361/681
D416,256	S		11/1999	Griffin et al	D14/191
6,016,176	Α	*	1/2000	Kim et al	. 349/84
6.125.040	Α	*	9/2000	Nobuchi et al	361/680

#### OTHER PUBLICATIONS

"Thumb Type", sheet-type keyboard for IBM workpad/ Palm Series, from OSW Mobile Computing and IrDA Total System Solution.

"Clio C-1050" mobile communication device, manufactured by Vadem.

e-concept Zaurus MI-E1.

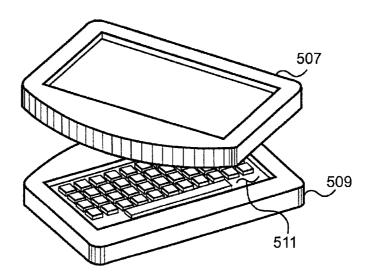
\* cited by examiner

Primary Examiner—Lisa Lea-Edmonds (74) Attorney, Agent, or Firm—James E. Walton; Melvin A. Hunn; Hill & Hunn LLP

# (57) ABSTRACT

A hand-held, electronic, bi-directional, wireless electronic communication device having a physical configuration which includes a relatively large, constantly visible display and an alphanumeric keyboard that can be concealed until needed.

20 Claims, 13 Drawing Sheets



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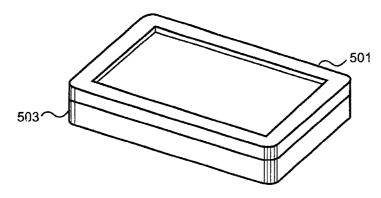


Figure 1A

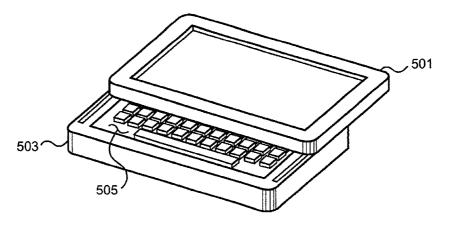


Figure 1B

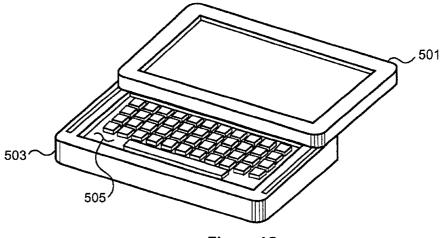
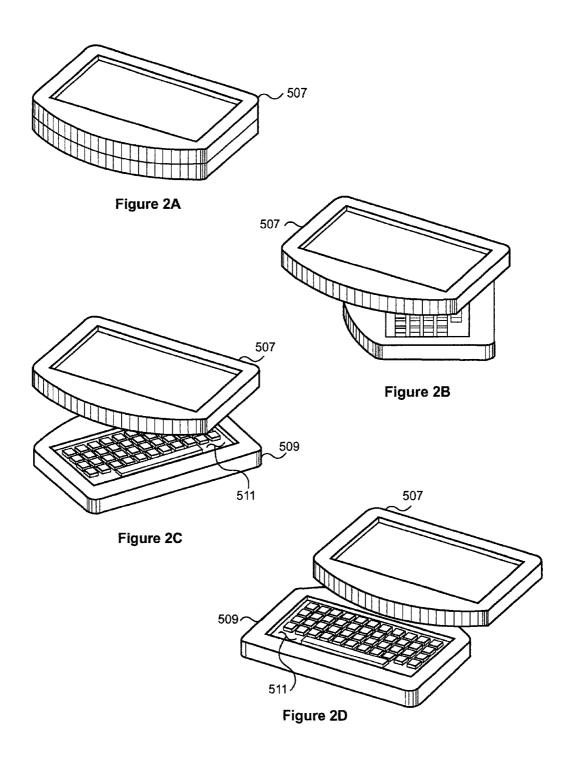


Figure 1C

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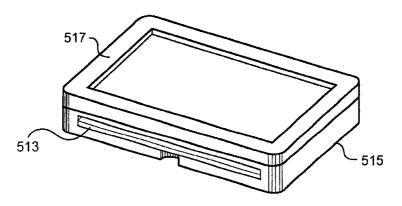


Figure 3A

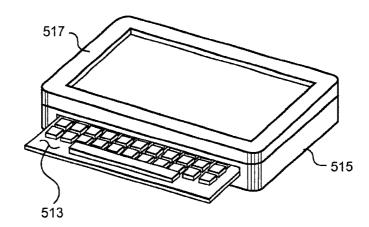


Figure 3B

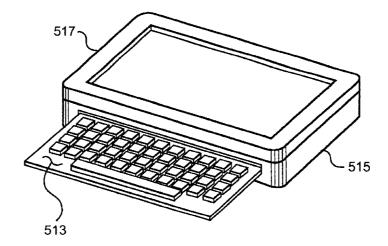


Figure 3C

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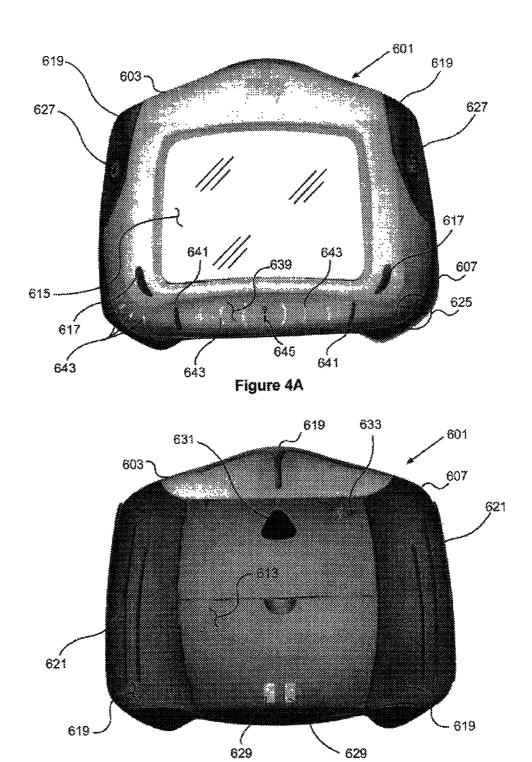


Figure 4B

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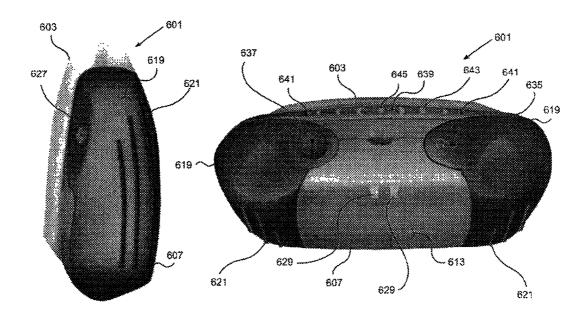


Figure 4C Figure 4D

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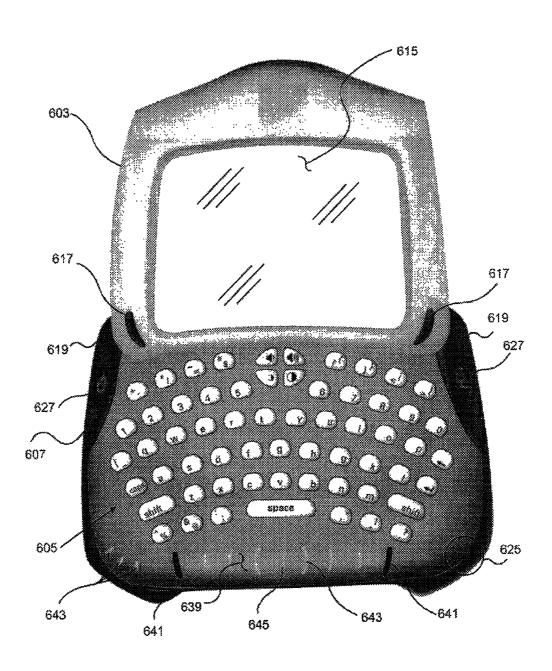


Figure 4E

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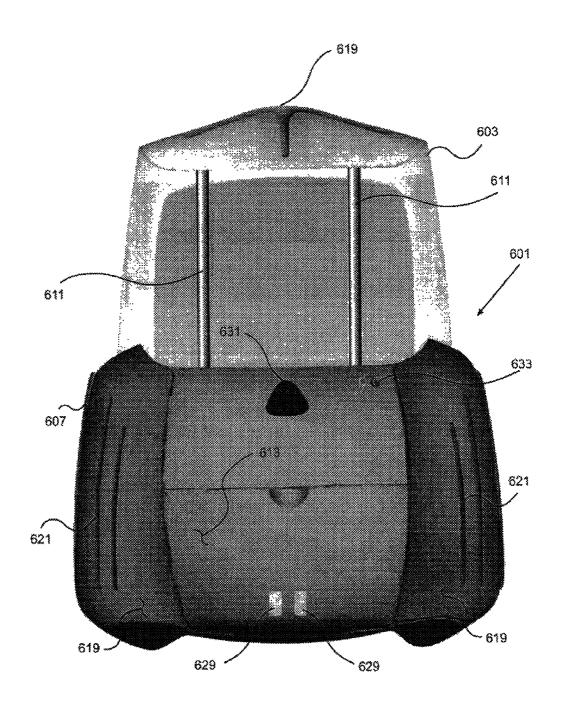
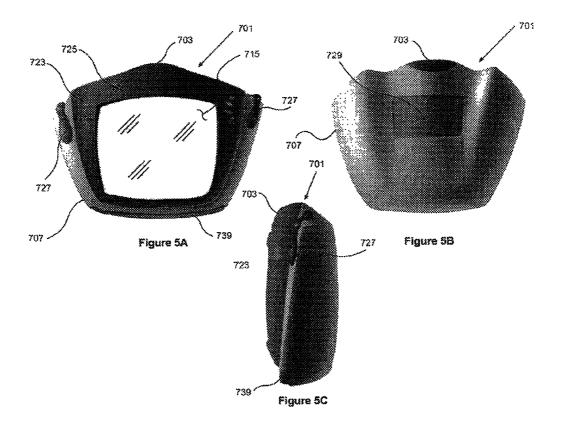


Figure 4F

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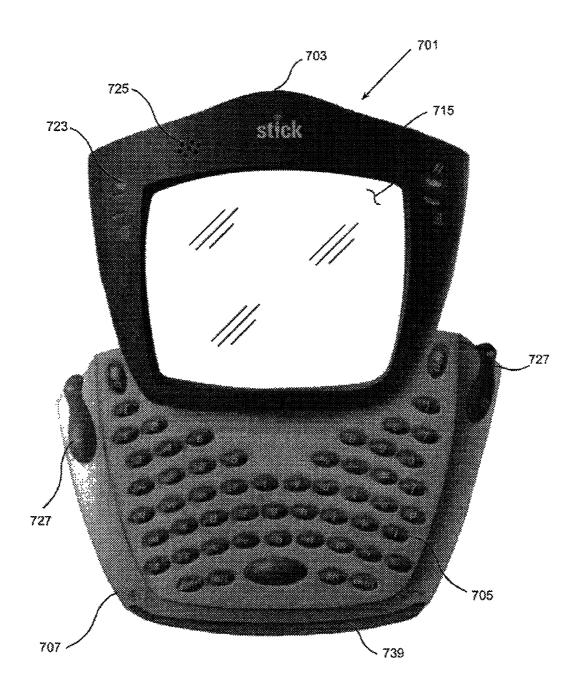


Figure 5D

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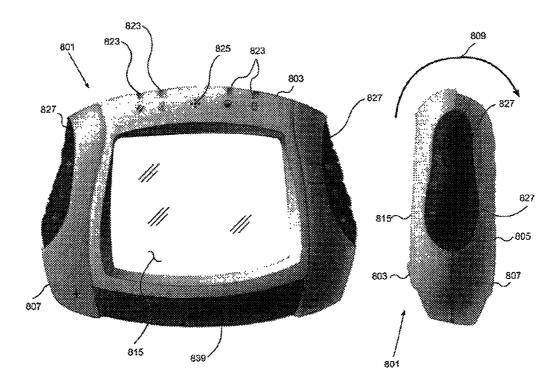


Figure 6A Figure 6B

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**Sheet 11 of 13** 

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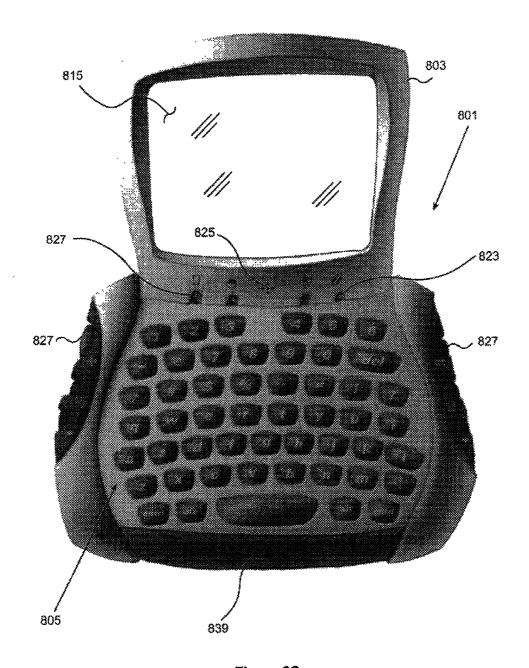
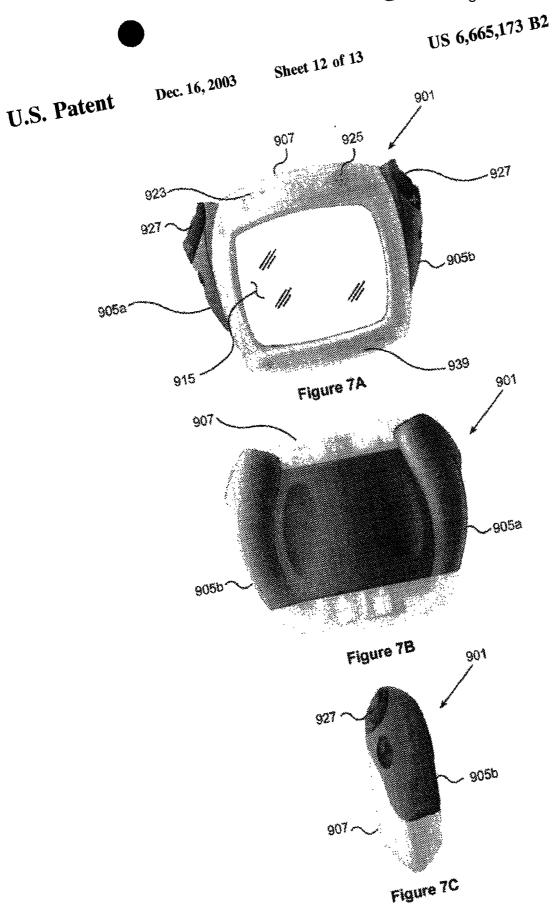


Figure 6C



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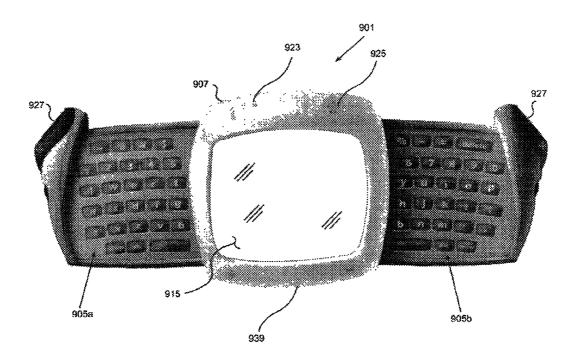


Figure 7D

US 6,665,173 B2

#### PHYSICAL CONFIGURATION OF A HAND-HELD ELECTRONIC COMMUNICATION DEVICE

This application claims the benefit of U.S. Provisional 5 Application No. 60/172,675, filed Dec. 20, 1999, titled "Physical Configuration of a Handheld Electronic Communication Device.'

#### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

The present invention relates to the physical configuration of hand-held, electronic devices. In particular, the present invention relates to the physical configuration of hand-held, electronic devices capable of bi-directional, wireless data 15 communication.

#### 2. Background Information

Until now, hand-held, wireless devices have primarily been used for person-to-person communication by voice, 20 transmitting and receiving voice data in real-time. These "mobile phone" devices have allowed users to go wherever they like and still be in touch with their friends and colleagues just as though they were using a wired phone at home or work. Communication by textual means, such as 25 e-mail, has been performed almost exclusively over landbased copper and fiber optic phone lines, because the wireless communication networks have simply not had the capacity or capability to provide cost effective, wireless wireless technology have made it possible to provide costeffective data transfer over existing wireless networks.

The most common means of textual communication has been e-mail, but a relatively new form of messaging called "instant messaging" (IM) has caught on and has grown very 35 rapidly in popularity in the last several years. Unlike e-mail which sits in an electronic mailbox until the user retrieves his or her e-mail messages, IM occurs nearly instantaneously, producing a notification and a dialog box on a user's screen alerting the user that they have an incoming 40 message. In addition, users have the ability to know if the recipient is on-line and available to receive an IM message.

Many hand-held, wireless devices are beginning to provide access to e-mail, but their functionality is currently very receiving and reviewing the information, not authoring and sending data. Much like retrieving voice messages from a voice mailbox, the user is only able to retrieve e-mail messages from their e-mail inbox. The primary reason for this is that authoring messages requires a convenient method 50 of alphanumeric data entry. Users are hesitant or reluctant to enter a message if the data entry process is slow and difficult. This is a problem that conventional devices cannot properly address due to user interface limitations, i.e., the capabilities, design, and layout of the physical devices. 55 While e-mail may require entry of a moderate length message in response to a received message, such data entry usually happens at a time the user deems appropriate and convenient, not at a time dictated by the sender of the message. This is very much like the user being able to 60 periodically check voice messages in a voice mailbox, and respond at the user's convenience.

However, IM and other types of instantaneous textual and graphical communication are more real-time and intrusive than e-mail; the same way that an incoming phone call is 65 more real-time and intrusive than checking voice messages. IM is a much more frequently accessed and used system than

an e-mail client; therefore, IM requires a network and device that are much more convenient to use than an e-mail client. Such a level of convenience has been possible with wired connections and desktop computers. With traditional desktop computers, the computer is placed on or near the work surface and the display and keyboard are easily accessible. The user can immediately see incoming IM messages presented on the display, then respond to the IM messages using the keyboard. The user does not have to remove a device from the user's belt clip or pocket and open the device to see the IM message. Neither does the user have to then locate a work surface for support and connect a peripheral keyboard in order to compose a response.

There are a variety of devices available that are capable of providing wireless access to textual information, such as mobile phones, personal digital assistants (PDA's), handheld computers, and two-way pagers, but the compromises in all of these designs limit their suitability as IM devices. For some of these devices, the displays are always visible and easy to see, but the device lacks an input device, has a small and inappropriate input device, has a slow and error prone method of data entry, or requires additional peripheral devices and a work surface for support. For other devices, a suitable input device is present, but the device transforms between multiple states which prevent the display from being seen in one of the states, limiting the convenience of using the device on a frequent basis.

Conventional wireless communication devices can be categorized into several distinct configurations: (1) mobile transmission of textual data. But recent advancements in 30 phones, commonly known as cellular phones; (2) personal digital assistants, commonly referred to as PDA's; (3) handheld computers, commonly referred to as palmtop computers; and (4) two-way pagers.

The configuration of a mobile phone typically consists of: (1) a small display that is always visible; (2) a keypad for numeric data entry; and (3) an internal communication module that can transmit and receive analog and/or digitized

The mobile phone configuration has the following disadvantages: (1) the display is typically very small and inappropriate for display of large amounts of textual data, i.e., they are typically proportioned for one or two rows of phone numbers and proper names, not textual data in the structure of a written sentence; (2) the keypad is commonly located limited. The user is usually limited to browsing, that is 45 adjacent to the display, increasing the overall size of the unit; (3) on some units, the device has a clamshell design that obscures both the keypad and display when closed; (4) the keypad is typically a twelve-digit keypad designed for numeric data entry, although the keyboard usually supports alphanumeric character entry for the purpose of entering proper names into an address book maintained in the phone's memory, whereby the commonly used method of accessing alphanumeric characters is to switch the device into a text entry mode, then press a key repeatedly to access a particular one of a subset of characters available for each key, this method being extremely slow, awkward, error prone, and not appropriate for a device intended to transfer textual data on a regular basis; and (5) the communication module is typically engineered to support voice communication, and in only the latest device versions, limited retrieval of alphanumeric data.

The configuration of a PDA typically consists of: (1) a large display that is always visible; (2) a touch screen and stylus for data entry; (3) no keyboard for data entry; and (4) no internal communication module.

The PDA configuration has the following disadvantages: (1) the device has no keyboard, so alphanumeric data entry is usually performed in one of two ways: (a) the user taps with a hand-held stylus on a "soft" keyboard that is drawn on the display, or (b) the user writes on screen with a hand-held stylus and the processor converts the user's writing into text data; (2) an optional detachable keyboard 5 may be available, but the keyboard usually requires a flat surface for support during use as it is tethered to the device by a cable or attaches in such a way that it will easily become detached if tilted, thus making the keyboard extremely awkward for use in one hand while on the move; and (5) the device lacks a communication module, although modules may sometimes be added, but at the expense of consuming the port available for connecting the optional keyboard to.

The configuration of a palmtop computer typically consists of: (1) a large display screen; (2) a complete keyboard; (3) a clamshell design where the display closes over the keyboard, or a flat layout where the display is located adjacent to the display; and (4) no internal communication

The palmtop configuration has the following disadvantages: (1) although the clamshell design affords protection to the display and keyboard when the device is closed, the clamshell design often renders the display non-visible when the device is closed, and is not adequate for frequent presentation of information to a user on the move; and (2) the relatively large size makes the device prohibitive for use as an IM device, because when a large display and keyboard are present, the device becomes inconvenient for the user to carry on a regular basis, resulting in the usability of the display and keyboard being greatly reduced.

The configuration of a two-way pager typically consists of: (1) a small display screen; (2) a small, complete keyboard; and (3) a flat layout where the keyboard is located adjacent to the display, or clamshell design where the display folds over the keyboard when closed.

The two-way pager configuration has the following disadvantages: (1) units with a flat layout have displays that are always visible, but to keep the overall device size down, the display and keyboard are reduced to minuscule dimensions which greatly reduces their usability; and (2) units with a 40 clamshell design, render the display non-visible when the unit is closed, adding inconvenience when the user must look at the display.

The distinction between each category of devices is mentioned devices. The devices are either: (1) designed primarily for voice communication and have limited alphanumeric entry capability, or a capability that is not suited to use in your hands while on the move; or (2) designed primarily for occasional retrieval and display of textual 50 a body portion, a display portion coupled to the body information and have a design that is very inconvenient for frequent input and viewing of data while on the move.

Some of these concepts are embodied in the following U.S. patents: U.S. Design Pat. No. Des. 416,256 issued to Griffin et al. which discloses a hand-held messaging device 55 with keyboard; U.S. Pat. No. 5,548,478 issued to Kumar et al. which discloses a portable computing device having an adjustable hinge; U.S. Pat. No. 5,638,257 issued to Kumar et al. which discloses a combination keyboard and cover for a hand-held computer. U.S. Pat. No. 5,712,760 issued to 60 Coulon et al. which discloses a compact foldable keyboard; and U.S. Pat. No. 5,949,408 issued to Kang et al. which discloses a dual orientation display hand-held computer. These devices either have fixed keyboards or use folding clamshell designs. As such, they are not good choices for IM 65 and other types of instantaneous textual and graphical communication.

Although the devices, designs, and physical configurations discussed above represent great strides in the area of physical configuration of hand-held communication devices, many shortcomings remain.

#### SUMMARY OF THE INVENTION

There is a need for a hand-held, electronic, bi-directional, wireless communication device that 1) contains a relatively large, constantly visible display capable of rich presentation of information, 2) that contains an alphanumeric keyboard that is usable by human hands and 3) that is small enough to carry and convenient enough to use under usage conditions typically encountered with a mobile phone device.

Therefore, it is an object of the present invention to provide a hand-held, electronic, bi-directional, wireless communication device having a physical configuration which includes a relatively large, constantly visible display and an alphanumeric keyboard that can be concealed until

It is another object of the present invention to provide a hand-held, electronic, bi-directional, wireless communication device having a physical configuration which includes a body portion, a display portion that translates relative to the body portion, a relatively large, constantly visible display carried by the display portion, and an alphanumeric keyboard carried by the body portion, the alphanumeric keyboard being concealed by the display portion when not in use.

It is another object of the present invention to provide a hand-held, electronic, bi-directional, wireless electronic communication device having a physical configuration which includes a body portion, a display portion that pivots relative to the body portion, a relatively large, constantly visible display carried by the display portion, and an alphanumeric keyboard carried by the body portion, the alphanumeric keyboard being concealed by the display portion when not in use.

It is another object of the present invention to provide a hand-held, electronic, bi-directional, wireless communication device having a physical configuration which includes a body portion, a display portion coupled to the body portion, a relatively large, constantly visible display carried by the display portion, and an alphanumeric keyboard that blurring daily, but a trend is very evident in all the previously 45 translates into the interior of the body portion when not in

> It is another object of the present invention to provide a hand-held, electronic, bi-directional, wireless communication device having a physical configuration which includes portion, a relatively large, constantly visible display carried by the display portion, and a two-piece alphanumeric keyboard that translates into the interior of the body portion when not in use.

> These objects are achieved by providing a hand-held, electronic, bi-directional, wireless communication device having a physical configuration which includes a relatively large, constantly visible display and an alphanumeric keyboard that can be concealed until needed. The communication device of the present invention has a physical configuration operable between an "open" state in which the alphanumeric keyboard is visible, and a "closed" state in which the alphanumeric keyboard is concealed. This allows the information presented by the communication device to be viewable in either the open or closed state. A user can quickly and easily transform the device from the closed state to the open state with either one or two hands, while viewing

the constantly visible display without interruption. The display is larger than those used on mobile phones and can display text and graphics at a convenient size and resolution. The alphanumeric keyboard is easier and faster to use and learn than the keypads and touch screens on most mobile 5 phones and personal digital assistants. The keyboard may be a keyboard with a layout such as the common "QWERTY" layout, but need not be limited to this particular layout. Other layouts may include the "FITALY" layout, the "Dvorak" layout or any other alphanumeric layout that 10 input device.

includes a substantially full set of alphanumeric keys. The present invention has many advantages over existing device configurations. Because the display is constantly visible, the user can immediately see incoming messages or communications and respond appropriately. The display is 15 relatively large to accommodate long textual messages, graphical communications, or a combination of both. The user can quickly and easily transform the device from the closed state to the open state without his view of the display being interrupted. The full alphanumeric keyboard allows 20 the user to quickly and easily transmit messages and other textual and graphical communications in a complete and intuitive manner without having to attach peripheral devices. The unique physical configuration of the present invention is not only effortless to learn and use, it encourages users to 25 participate in these new forms of communication.

#### BRIEF DESCRIPTION OF THE DRAWINGS

- FIG. 1A is a perspective view of a simplified representation of the hand-held, electronic communication device 30 having a physical configuration according to the present invention.
- FIG. 1B is a perspective view of the device of FIG. 1A depicting how a constantly visible display translates relative to a body portion to expose a keyboard or other data input 35 device that is carried by a body portion.
- FIG. 1C is a perspective view of the device of FIG. 1A with the constantly visible display in a position which fully reveals the keyboard or data input device.
- FIG. 2A is a perspective view of an alternate simplified 40 representation of a hand-held, electronic communication device having a physical configuration according to the present invention.
- FIG. 2B is a perspective view of the device of FIG. 2A depicting how a constantly visible display pivots relative to a body portion to reveal a keyboard or other data input
- FIG. 2C is a perspective view of the device of FIG. 2A depicting how the constantly visible display further pivots relative to the body portion to reveal the keyboard or other data input device.
- FIG. 2D is a perspective view of the device of FIG. 2A with the constantly visible display pivoted to fully reveal the keyboard or other input device.
- FIG. 3A is a perspective view of an alternate simplified representation of a hand-held, electronic communication device having a physical configuration according to the present invention.
- FIG. 3B is a perspective view of the device of FIG. 3A 60 depicting how a keyboard or other data input device extends outward from the interior of a body portion.
- FIG. 3C is a perspective view of the device of FIG. 3A with the keyboard or other data input device in a fully extended position.
- FIG. 4A is a front view of a hand-held, electronic, bi-directional wireless communication device having a

6 physical configuration of the type illustrated in FIGS. 1A-1C in a closed state.

- FIG. 4B is a rear view of the device of FIG. 4A.
- FIG. 4C is a right side view of the device of FIG. 4A.
- FIG. 4D is a bottom view of the device of FIG. 4A.
- FIG. 4E is a front view of the device of FIG. 4A in an open state in which a constantly visible display is translated relative to a body portion to fully reveal a keyboard or other
- FIG. 4F is a rear view of the device of FIG. 4A while in the open state of FIG. 4E.
- FIG. 5A is a front view of an alternate hand-held, electronic, bi-directional wireless communication device having a physical configuration of the type illustrated in FIGS. 1A-1C in a closed state.
  - FIG. 5B is a rear view of the device of FIG. 5A.
  - FIG. 5C is a right side view of the device of FIG. 5A.
- FIG. 5D is a front view of the device of FIG. 5A in an open state in which a constantly visible display is translated relative to a body portion to fully reveal a keyboard or other input device.
- FIG. 6A is a front view of a hand-held, electronic, bi-directional wireless communication device having a clamshell-type physical configuration in which a keyboard or other input device hingedly pivots relative to a constantly visible display.
  - FIG. 6B is a right side view of the device of FIG. 6A.
- FIG. 6C is a front view of the device of FIG. 6A with the keyboard or other input device fully pivoted relative to the constantly visible display fully reveal the keyboard or other input device.
- FIG. 7A is a front view of a hand-held, electronic, bi-directional wireless communication device having a physical configuration of the type illustrated in FIGS. 3A-3C.
  - FIG. 7B is a rear view of the device of FIG. 7A.
  - FIG. 7C is a right side view of the device of FIG. 7A.
- FIG. 7D is a front view of the device of FIG. 7A with a two-piece keyboard fully extended outward from the interior of a body portion.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring generally to FIGS. 1A-1C, 2A-2D, and 3A-3C in the drawings, simplified representations of a hand-held, electronic communication device having a physical configuration according to the present invention are illustrated. To be convenient for IM and other instantaneous textual and graphical communications, a device must be able to support effortless reading of incoming IM messages and rapid entry of responses. Such support minimizes the inconvenience of the intrusion of the IM message. The device should allow a minimum amount of effort to perform the tasks involved when using IM.

The device configuration of the present invention provides the following unique and distinct features:

- 1. A relatively large display screen capable of displaying textual and graphical information, allowing for a rich presentation of information;
- 2. A display screen that is always visible. If, for example, the device must transition from a closed state that is characterized by maximum portability to an open state that is characterized by maximum usability, the display

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is constantly visible in each state. Users are very intolerant of a device that must be manipulated and opened in order to view the display each and every time a message or notification occurs;

- 3. An alphanumeric data entry means that is suitable for 5 use with human hands without the aid of an additional pointing device such as a stylus and that is designed for rapid entry of alphanumeric data; and
- 4. A relatively small size which makes the device convenient for portable use and allows the device to be 10 operated, ideally, with one or two hands.

To ensure that the device of the present invention is appropriate for mobile use, the device is small and convenient to carry and use. The device is capable of being configured in at least two distinct states that maximize both 15 its portability and usability. One device state maintains a small footprint, whereby the device consumes a minimal amount of volume and affords a greater level of portability and concealment, herein called the "closed" state. In this concealed to minimize space and maximize portability. A second device state affords a more efficient level of alphanumeric data entry, herein called the "open" state. In the open state, the display is visible and the keyboard is accesthe open state to the closed state easily and with a minimum of effort, preferably with one hand. Preferably, the display translates relative to the main housing to reveal the keyboard. However, the display may either pivot or rotate relative to the housing to reveal the keyboard, or the 30 keyboard may telescope into the interior of the housing. In the preferred embodiment, the device's display remains visible in either state, allowing the user to observe incoming messages without having to manipulate the device to transition it from one state to another, such as from closed to 35

In order to overcome the limitations of current hand-held, electronic devices that serve or can be adapted to the purpose of bi-directional, wireless communication of textual and graphical information., the present invention provides a new 40 and improved configuration of a device that allows for the inclusion in the device of both a large, always visible display screen and an alphanumeric data input device that allows rapid and comfortable entry of alphanumeric data. The device of the present invention preferably has a large, color 45 display screen capable of displaying textual and graphical information for rich presentation of information. Because the display screen is always visible and hence exposed and susceptible to damage, a cover made of either a rigid or flaccid material to afford protection may protect the display. 50 The cover may be of a material such as a clear plastic or rubber that allows the display to remain visible even when covered. Further, the device of the present invention has an alphanumeric data input device that allows rapid and comfortable entry of alphanumeric data. The present invention 55 provides a configuration such that the device can be held and operated with one or two hands in a convenient and comfortable manner under usage conditions typically encountered with a mobile phone device.

The device of the present invention comprises at least the 60 following components: (1) an alphanumeric data input device, such as a full QWERTY-type keyboard or thumbboard; (2) a display device, such as an LCD, LED, or LEP display screen; (3) a processor; (4) a power source, such as a battery or mechanical generator like a wind-up spring 65 movable such that it is revealed from below the display mechanism; (5) a communication module, such as a CDPD, CDMA, GSM or GPRS radio capable of wireless data

transmission and reception; and (6) a physical housing that contains these components and that consists of at least two discrete portions that may translate, rotate and/or pivot relative to one another, one portion containing a display device and one portion containing a keyboard.

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The display, preferably color, is always visible as the device transitions from a closed state characterized by maximum portability to an open state characterized by maximum usability. The display may translate, rotate, or revolve relative to the main housing of the device. The display will be large enough to accommodate simultaneous textual messages, graphical displays, and graphical animations. The device and corresponding wireless network include integral support of IM and other instantaneous textual and graphical communication. The exterior layout of the device is heavily influenced by the capability to effectively utilize these types of instantaneous communication.

Although the device may be placed in an "off" state in which no power is supplied to the device, it is preferred that closed state, the display is visible, but the keyboard is 20 the device remain either in an "on" state in which the device has full functionality, or a "sleep" state in which the device may appear to the user to be off, but is, in fact, performing certain background functions. In the fully functional "on" state, the device is displaying digital content and the user is sible to maximize usability. The device can transition from 25 interacting with the device. In the "sleep" state, the user is not interacting with the device and the display screen on the device has eycled down and is not actively displaying digital content. In the sleep state, the display screen may be blank or may be displaying a preprogrammed graphic or image. If the device is in the sleep state and the user begins to interact with the device, or if the user receives a "hot" communication, the device immediately switches from the sleep state to the on state so that the user may fully utilize all features and functionality of the device.

> The device may include a variety of additional input/ output components, such as lights, LED's, buttons, joysticks, a touch pad, an analog responder, and others components which allow the user to view information and manipulate the device to a certain degree without transitioning the device to the open state.

> A first device configuration is specifically depicted in FIGS. 1A-1C. A constantly visible display 501 translates relative to a body portion 503 to reveal a full QWERTY-type keyboard or other input device 505. This first device configuration includes the following features: (1) the display remains visible when the device is in either the open or closed state; (2) in the closed state, the display remains visible, but obscures the full keyboard or other input device; (3) the display is generally parallel with the keyboard or other input device and translates relative to the body portion such that the keyboard or other input device is revealed when the device is transitioned from the closed state to the open state; and (4) when transitioning from the closed state to the open state, the display translates in a plane that is generally parallel to the plane of the keyboard or other input

> A second device configuration is specifically depicted in FIGS. 2A-2D. A constantly visible display 507 pivots relative to a body portion 509 to reveal a full QWERTY-type keyboard or other input device 511. This second device configuration includes the following features: (1) the display remains visible when the device is in either the open or closed state; (2) in the closed state, the display remains visible, but obscures the input device; (3) the input device is when the device is transitioned from the closed state to the open state; and (4) when transitioning from the closed state

to the open state, the input device moves in one or a combination of a sliding, hinging, or pivoting movements.

A third device configuration is specifically depicted in FIGS. 3A-3C. An input device 513 translates into a body portion 515 which carries an always visible display 517. 5 This third device configuration includes the following features: (1) the display remains visible when the device is in either the open or closed state; (2) in the closed state, the keyboard display remains visible, but obscures the input device; (3) the input device is movable such that it is 10 made of a similar material. As has become popular in recent revealed from below the display when the device is transitioned from the closed state to the open state; and (4) when transitioning from the closed state to the open state, the input device moves in one or a combination of a sliding, hinging, or pivoting movements.

Regardless of the configuration chosen, the device is a hand-held device that can be held by one or two hands and conveniently carried or worn by the user on his or her person. The device is operated in a convenient and comfortable manner under usage conditions typically encountered 20 with a mobile phone device.

The preferred configuration of a device 601 according to the present invention is illustrated in FIGS. 4A-4F. The physical configuration of device 601 corresponds to the configuration illustrated in FIGS. 1A-1C. In FIGS. 4A-4D, 25 attitudes. device 601 is shown in the closed state in which an always visible display portion 603 conceals a novel QWERTY-type thumbboard 605 that is carried by a body portion 607. In FIGS. 4E and 4F, device 601 is shown in an open state in body portion 607 to reveal thumbboard 605. As is best seen in FIG. 4F, display portion 603 may include a plurality of rigid support rails 611 that telescope into body portion 607 to provide additional support of display portion 603 while device 601 is in the open state. It should be understood that 35 other support means, such as interlocking grooves on display portion 603 and body portion 607 may also be used to provide additional support for display portion 603. Display portion 603 is dimensioned to house a plurality of compodirectly related to the display of images, such as a GPS antenna and integrated circuit boards. Likewise, body portion 607 is dimensioned to house a plurality of electronic components and systems and necessary integrated circuit boards, such as the microprocessor (not shown) and cache 45 memory (not shown).

Display portion 603 includes a display screen 615. Display screen 615 is preferably a high-resolution, 16-bit color, reflective LCD screen being 320×240 pixels having a diagonal display area of about 3.8 inches. It should be understood 50 that other comparable display screens may be used. Although always visible, display screen 615 will cycle down to a "power save" mode during periods of non-use to conserve power. A cover or shade (not shown) may be enhance visibility, to prevent glare, or to alleviate or minimize other common problems associated with such display screens. In the preferred embodiment, display screen 615 is covered by a protective bezel (not shown).

Device 601 is powered by a portable power supply (not 60 shown), such as batteries. In this regard, a power supply cover 613 is provided to cover and protect the portable power supply. In the preferred embodiment, the portable power supply is rechargeable by placing device 601 in a docking station or charging station (not shown). Although 65 device 601 operates on DC current, device 601 may be plugged into and powered by a conventional 110-Volt wall

10 outlet (not shown) with the use of a conventionally functioning AC to DC power transformer (not shown).

A plurality of push pads 617 are located at selected locations on display portion 603. Push pads 617 are preferably located such that the user may translate display portion 603 relative to body portion 607 by pushing on push pads 617 with his thumb or thumbs. In the preferred embodiment, display portion 603 is preferably made of rigid, molded plastic or similar material. Body portion 607 is preferably years, display portion 603 and/or body portion 607 may be partially transparent or translucent, having a colored tint. A plurality of protective bumpers 619, preferably made of rubber or rubberized plastic, are coupled to display portion 15 603 and body portion 607 at selected locations. A plurality of raised grips 621 may be integrated into protective bumpers 619 to facilitate handling of and interaction with device 601. Device 601 may be of modular construction so that a plurality of the external components may be quickly and easily interchanged. Such interchangeability allows the user to choose from a wide variety of exterior styles and designs, thereby customizing device 601 to the user's particular tastes. In this manner, the appearance of device 601 can be modified to suit the user's ever changing moods and

Device 601 includes a plurality of input/output devices, such as LED's 623, at least one speaker 625, a plurality of joysticks 627, conductive power terminals 629 for attachment to the docking station, an infrared (IR) port 631 for the which display portion 603 has been translated relative to 30 transfer of data, a DC adapter port 633 for attachment of the power transformer, a headphone jack 635 for use with headphone speakers, an on-off switch 637 for toggling device between an "on" state, an "off" state, and/or a "standby" state, as further explained herein, and an analog responder 639. It will be appreciated that LED's 623, joysticks 627, and on-off switch 637 may be multifunctional. For instance, LED's 623 are preferably fullspectrum color LED's that can be selectively programmed by the user to display selected colors at selected intensities nents (not shown). Such components may or may not be 40 and/or selected flash frequencies in response to certain conditions. LED's 623 are particularly useful when display screen 615 has cycled down into the power save mode. This allows the user to interact with device 601 without transitioning device into the open state. By using only LED's 623, speaker 625, joysticks 627, IR port 631, and analog responder 639, a user can perform a considerable amount of input/output without transitioning device 601 into the open state.

Analog responder 639 is a one-dimensional, electronic touch pad disposed within device 601. Analog responder 639 is activated by the user touching selected areas of device 601. Preferably, analog responder 639 is disposed within and centrally located along a lower edge of body portion 607 closest to the user. Such location allows analog responder utilized to protect display screen 615 from damage, to 55 639 to be usable when device 601 is either in the closed state or the open state, i.e., when display portion 603 is translated relative to body portion 607. It is preferred that analog responder 639 be adjacent or in close proximity to display screen 615, because analog responder 639 functions primarily to manipulate a cursor or graphical images being displayed on display screen 615. The one-dimensional functional boundaries of analog responder 639 are preferably indicated by raised end ridges 641 or similar visual indicia. For example, one boundary may be indicated by a "-" sign and the opposing end boundary may be indicated by a "+" sign. Such indicia are particularly useful because a primary function of analog responder 639 is to allow the user to

selectively input a response to a query from an analog range of possible responses. Using the current example, the end boundary indicated by the "-" might represent a negative response by the user to a query, such as "I do not like pizza;" whereas the end boundary indicated by the "+" might 5 represent a positive response by the user to the same query, such as "I love pizza." In a similar fashion, analog responder 639 is visually segmented, preferably by raised intermediate ridges 643, or similar visual indicia placed incrementally along the length of analog responder 639 between end ridges 641. In the preferred embodiment, intermediate ridges 643 are more pronounced at the center 645 of analog responder 639 and decrease in size or shape, if applicable, toward end ridges 641. This allows the user to quickly determine which

portion of analog responder 639 the user is touching, tapping, or depressing.

Referring now to FIGS. 5A-5D in the drawings, an alternate embodiment of the device of the present invention is illustrated. As with device 601, a device 701 has an always visible display portion 703 and a body portion 707. The physical configuration of device 701 corresponds to the 20 configuration illustrated in FIGS. 1A-1C. Display portion 703 carries a display screen 715, similar in form and function to display screen 615. Display portion 703 translates relative to body portion 707 to reveal a QWERTY-type thumbboard 705 which is similar in form and function as 25 thumbboard 605. As is shown, device 701 includes similar input/output ports and devices as device 601, such as LED's 723, at least one speaker 725, a plurality of joysticks 727, and an analog responder 739. In addition, device 701 includes a conventional two-dimensional touch pad 729 on the backside of device 701. Touch pad 729 is located such that it can be utilized by the user while device 701 is in either the closed state or the open state. Touch pad 729 may be programmed to map to display screen 715 in either an absolute mode or a relative mode.

Referring now to FIGS. 6A-6C in the drawings, another 35 alternate embodiment of the device of the present invention is illustrated. In this embodiment, a device 801 has a clam-shell design. As with previously discussed embodiments, device 801 has an always visible display portion 803 and a body portion 807 which carries a novel 40 QWERTY-type thumbboard 805. In this embodiment, a screen display 815 on display portion 803 and thumbboard 805 on body portion 807 both face outward and are on opposite sides of body portion 807 when device 801 is in the display portion 803 hingedly pivots relative to body portion 807 as indicated by arrow 809 in FIG. 6B. In the open state, display screen 815 is adjacent to and visible above thumbboard 805. As is shown, device 801 includes similar input/ output ports and devices as device 601, such as LED's 823, 50 at least one speaker 825, a plurality of joysticks 827, and an analog responder 839.

Referring now to FIGS. 7A-7D in the drawings, another alternate embodiment of the device of the present invention telescoping design. The physical configuration of device 901 corresponds to the configuration illustrated in FIGS. 3A-3C. As with previously discussed embodiments, device 901 has an always visible display screen 915. Display screen 915 is carried by a body portion 907 into which a novel, two-piece 60 QWERTY-type thumbboard 905a and 905b telescopes into from opposing sides of body portion 907. As is shown. device 901 includes similar input/output ports and devices as device 601, such as LED's 923, at least one speaker 925, a plurality of joysticks 927, and an analog responder 939. 65 Joysticks 923 are carried on each piece of thumbboard 905a and 905b.

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The device of the present invention has a configuration that has a relatively small overall size, but is optimized for textual and other non-voice types of communication. With advancements in radio technology, it is possible to include voice communication capability without significantly increasing the overall size of the device. In accordance with the preferred implementation of the present invention, a plurality of alternative communication modes can be supported by the device and the associated wireless network. Some communication modes can be considered to be "cold" forms of communication, while other modes of communication may be considered to be "hot" modes of communication. A cold mode of communication has a high degree of delay or latency associated therewith. Conversely, a hot mode of communication is one which has a low degree of delay or latency associated therewith. Generally, hot modes of communication may be conducted in real time, or instantaneously. Preferably, the alternative communication modes include an e-mail mode, an IM mode, a chat mode, a voice mode, and a video phone mode. The following is a description of the operation of the present invention to enable these various modes of communication as well as the escalation or de-escalation of modes of communication.

The e-mail mode of communication is one in which text messages are keyed in by one user and communicated in a text form over the wireless network to a designated recipient. The e-mail mode of communication on the network utilizes conventional e-mail formats and protocols. E-mail messages may be accumulated and saved in an electronic in-box, whereby the e-mail messages may be read at the 30 leisure and convenience of the recipient.

The instant messaging mode of communication is one in which text messages are keyed in by one user and delivered immediately to the recipient user if the recipient user's device is in an IM receipt mode. IM messages received while in the IM receipt mode subordinate other content on the recipient's device. Thus, IM is considered "hotter" than e-mail. It is desirable that the IM mode of communication on the wireless network utilizes conventional IM formats and protocols.

The chat mode of communication is one in which a plurality of communicants have initiated a chat session in which text, graphical, or voice synthesized messages are exchanged substantially concurrently in a dialog fashion. Because the users in a chat session have affirmatively closed state. As device 801 transitions to the open state, 45 established a desire to communicate with each other, chat is "hotter" than e-mail and IM. It is desired that the chat mode of communication on the wireless network utilizes conventional chat formats and protocols.

The voice mode of communication is similar to a telephone conversation. The voice mode of communication is possible when a mobile phone is embedded in the device. Because the voice mode of communication is performed concurrently between users in real time, it is "hotter" than e-mail, IM, or chat. It is desired that the voice mode of is illustrated. In this embodiment, a device 901 has a 55 communication on the wireless network utilizes conventional cellular or digital phone formats and protocols.

> The video-voice mode of communication is similar to a video phone conversation. The video-voice mode of communication is possible when a mobile video phone is embedded in the device. Because the video-voice mode of communication is performed concurrently between users in real time, and involves current video, it is "hotter" than e-mail, IM, chat, or voice. It is desired that the video-voice mode of communication on the wireless network utilizes conventional cellular or digital video phone formats and protocols.

In accordance with the preferred embodiment of the present invention, it is possible for communicants to move

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between modes of communication from a relatively "cold" mode of communication, such as IM, to a relatively "hot" mode of communication, such as a voice. If during an IM session, the communicants decide to "switch up" to the voice communication mode, they can simply input an appro- 5 priate command to their respective devices, and the wireless network will establish the voice connection between the users

Conversely, it is possible for communicants to de-escalate modes of communication from a relatively "hot" to a 10 relatively "cold" mode of communication. This could be done in an effort to reduce airtime or to conserve network energy. For example, if two users are communicating to each other in the voice mode and decide to "switch down" to a chat mode which may burn less network energy, the users 15 simply input an appropriate command to their respective devices, and the wireless network will disconnect the voice connection between the users and establish a chat session between the users.

Although the invention has been described with reference 20 to a particular embodiment, this description is not meant to be construed in a limiting sense. Various modifications of the disclosed embodiments as well as alternative embodiments of the invention will become apparent to persons skilled in the art upon reference to the description of the invention. It 25 is therefore contemplated that the appended claims will cover any such modifications or embodiments that fall within the scope of the invention.

We claim:

- 1. A hand-held, electronic computing device having a 30 physical configuration comprising:
  - a body portion;
  - a display portion pivotally coupled to the body portion;
- a constantly visible display carried by the display portion; 35 an alphanumeric keyboard carried by the body portion;
- wherein the alphanumeric keyboard is at least partially concealed by the display portion when not in use; and
- wherein the display portion pivots relative to the body portion in a plane that is generally parallel with the 40 alphanumeric keyboard.
- 2. The hand-held, electronic computing device according to claim 1, wherein the display portion completely conceals the alphanumeric keyboard.
- 3. The hand-held, electronic computing device according 45 to claim 1, wherein the display portion pivots 180° relative to the body portion to define an open position.
- 4. The hand-held, electronic computing device according to claim 1, wherein the display portion pivots from a point located above the alphanumeric keyboard.
- 5. The hand-held, electronic computing device according to claim 1, wherein the display portion pivots from a point located below the alphanumeric keyboard.
- 6. The hand-held, electronic computing device according to claim 1, wherein the display is a high-resolution color 55
- 7. The hand-held, electronic computing device according to claim 1, further comprising:
  - at least one push pad disposed on the body portion to aid in pivoting the display portion relative to the body
- 8. The hand-held, electronic computing device according to claim 1, further comprising:

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- at least one push pad disposed on the display portion to aid in pivoting the display portion relative to the body portion.
- 9. The hand-held, electronic computing device according to claim 1, further comprising:
  - at least one protective bumper disposed on the body portion.
- 10. The hand-held, electronic computing device according to claim 1, further comprising:
- at least one protective bumper disposed on the display
- 11. The hand-held, electronic computing device according to claim 1, wherein the body portion is formed from a partially transparent material.
- 12. The hand-held, electronic computing device according to claim 1, wherein the display portion is formed from a partially transparent material.
- 13. The hand-held, electronic computing device according to claim 1, wherein the body portion is of modular construction to allow the interchangeability of external components.
- 14. The hand-held, electronic computing device according to claim 1, wherein the display portion is of modular construction to allow the interchangeability of external components.
- 15. The hand-held, electronic computing device according to claim 1, further comprising:
  - at least one input/output component from the following
    - a. a light;
    - b. an LED;
    - c. a button;
    - d. a joystick;
  - e. a touch pad; f. a jog wheel;
  - g. a scroll wheel;
  - h. a speaker;
  - i. a headphone jack;
  - j. a microphone;
  - k. an infrared port;
  - 1. a DC adapter port;
  - m. an antenna;
  - n. an on/off switch;
  - o. an analog responder; and
  - p. a conductive power terminal.
- 16. The hand-held, electronic computing device according to claim 15, wherein the input/output components are carried by the body portion.
- 17. The hand-held, electronic computing device according to claim 15, wherein the input/output components are carried by the display portion.
- 18. The hand-held, electronic computing device according to claim 16, wherein the input/output components are carried by both the body portion and the display portion.
- 19. The hand-held, electronic computing device according to claim 15, wherein the input/output components are located to facilitate interaction with the device while the display portion is positioned to partially conceal the alphanumeric keyboard.
- 20. The hand-held, electronic computing device according to claim 15, wherein the LED is a full-spectrum color LED.

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	emoved from 3 Remanded te Court Appellate Co	from 4 Reinstated or Reopened	Transferred from  ☐ 5 another district ☐ (specify)	District Jo 6 Multidistrict  7 from I Litigation	uage Magistrate Judge	
VI. CAUSE OF ACTION  Action under 35 U.S.C. § 271 et se	Do not cite jurisdictional sta	tutes unless diversity.)	d write brief statement of cause.			
VII. REQUESTED IN COMPLAINT: CHECK IF THIS IS A CLASS ACTION UNDER F.R.C.P. 23			DEMAND \$ unspecified	ND \$ unspecified CHECK YES only if demanded in complaint:  JURY DEMAND:   YES  NO		
VIII. RELATED CASE(S) (See instructions):  IF ANY  JUDGE Sidney Fitzwater (See attached sheet for other related cases.)  A  DOCKET NUMBER 3-05CV-094-D						
DATE February 10, 2005	Sic	GNATURE OF ATTORNEY	OF RECORD			
FOR OFFICE USE ONLY RECEIPT #	AMOUNT	APPLYING IFP	JUDGE	MAG. JUDGE		

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Case 3:05-cv-00289 Document 1 Filed 02/10/05 Pa 29 of 30 PageID 29

# OTHER RELATED CASES

Wireless Agents, L.L.C. v. Kyocera Wireless Corp., No Docket No., Filed 2/10/05

## Authority For Civil Cover Sheet

The JS-44 civil cover sheet and the information contained herein neither replaces nor supplements the filings and service of pleading or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. Consequently, a civil cover sheet is submitted to the Clerk of Court for each civil complaint filed. The attorney filing a case should complete the form as follows:

- I. (a) Plaintiffs-Defendants. Enter names (last, first, middle initial) of plaintiff and defendant. If the plaintiff or defendant is a government agency, use only the full name or standard abbreviations. If the plaintiff or defendant is an official within a government agency, identify first the agency and then the official, giving both name and title.
- (b.) County of Residence. For each civil case filed, except U.S. plaintiff cases, enter the name of the county where the first listed plaintiff resides at the time of filing. In U.S. plaintiff cases, enter the name of the county in which the first listed defendant resides at the time of filing. (NOTE: In land condemnation cases, the county of residence of the "defendant" is the location of the tract of land involved.)
- (c) Attorneys. Enter the firm name, address, telephone number, and attorney of record. If there are several attorneys, list them on an attachment, noting in this section "(see attachment)".
- II. Jurisdiction. The basis of jurisdiction is set forth under Rule 8(a), F.R.C.P., which requires that jurisdictions be shown in pleadings. Place an "X" in one of the boxes. If there is more than one basis of jurisdiction, precedence is given in the order shown below.

United States plaintiff. (1) Jurisdiction based on 28 U.S.C. 1345 and 1348. Suits by agencies and officers of the United States, are included here.

United States defendant. (2) When the plaintiff is suing the United States, its officers or agencies, place an "X" in this box.

Federal question. (3) This refers to suits under 28 U.S.C. 1331, where jurisdiction arises under the Constitution of the United States, an amendment to the Constitution, an act of Congress or a treaty of the United States. In cases where the U.S. is a party, the U.S. plaintiff or defendant code takes precedence, and box 1 or 2 should be marked.

Diversity of citizenship. (4) This refers to suits under 28 U.S.C. 1332, where parties are citizens of different states. When Box 4 is checked, the citizenship of the different parties must be checked. (See Section III below; federal question actions take precedence over diversity cases.)

- III. Residence (citizenship) of Principal Parties. This section of the JS-44 is to be completed if diversity of citizenship was indicated above. Mark this section for each principal party.
- IV. Nature of Suit. Place an "X" in the appropriate box. If the nature of suit cannot be determined, be sure the cause of action, in Section IV below, is sufficient to enable the deputy clerk or the statistical clerks in the Administrative Office to determine the nature of suit. If the cause fits more than one nature of suit, select the most definitive.
- V. Origin. Place an "X" in one of the seven boxes.

Original Proceedings. (1) Cases which originate in the United States district courts.

Removed from State Court. (2) Proceedings initiated in state courts may be removed to the district courts under Title 28 U.S.C., Section 1441. When the petition for removal is granted, check this box.

Remanded from Appellate Court. (3) Check this box for cases remanded to the district court for further action. Use the date of remand as the filing date.

Reinstated or Reopened. (4) Check this box for cases reinstated or reopened in the district court. Use the reopening date as the filing date.

Transferred from Another District. (5) For cases transferred under Title 28 U.S.C. Section 1404(a) Do not use this for within district transfers or multidistrict litigation transfers.

Multidistrict Litigation. (6) Check this box when a multidistrict case is transferred into the district under authority of Title 28 U.S.C. Section 1407. When this box is checked, do not check (5) above.

Appeal to District Judge from Magistrate Judgment. (7) Check this box for an appeal from a magistrate judge's decision.

- VI. Cause of Action. Report the civil statute directly related to the cause of action and give a brief description of the cause.
- VII. Requested in Complaint. Class Action. Place an "X" in this box if you are filing a class action under Rule 23, F.R.Cv.P.

Demand. In this space enter the dollar amount (in thousands of dollars) being demanded or indicate other demand such as a preliminary injunction.

Jury Demand. Check the appropriate box to indicate whether or not a jury is being demanded.

VIII. Related Cases. This section of the JS-44 is used to reference related pending cases if any. If there are related pending cases, insert the docket numbers and the corresponding judge names for such cases.

Date and Attorney Signature. Date and sign the civil cover sheet.